

### PRODUCT CONTROL NOTICE OF ACCEPTANCE

**Entegra Roof Tile Corporation** 1201 N.W. 18 Street Pompano Beach, FL 33069

### **BUILDING CODE COMPLIANCE OFFICE**

METRO-DADE FLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION

(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION (305) 375-2966 FAX (305) 375-2908

> PRODUCT CONTROL DIVISION (305) 375-2902 FAX (305) 372-6339

Your application for Notice of Acceptance (NOA) of:

Valencia Spanish "S" Concrete

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 01-0417.08 EXPIRES: 06/07/2006** 

Raul Rodriguez

**Chief Product Control Division** 

## THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL **CONDITIONS BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.

Prancises / accintera

Director

Miami-Dade County

**Building Code Compliance Office** 

APPROVED: 06/07/2001

### ENTEGRA ROOF TILE CORPORATION

**ACCEPTANCE No.** : 01-0417.08

Category: Sub-Category:

Roofing Tiles

**Approval Date: Expiration Date:** 

June 7, 2001 June 7, 2006

Material:

Concrete

## 1. SCOPE

This revises a roofing system using Entegra Valencia Spanish "S" Concrete Roof Tile, as manufactured Entegra Roof Tile Corporation described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by applicable Building Code, does not exceed the design pressure values obtain by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

### 2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
Valencia Spanish "S"	1 = 18" w = 10 1/4" min. 3/4" thick	PA 112	High profile, interlocking, one-piece, "S" shaped, concrete roof tile equipped with two nail holes. For direct deck nail-on, mortar set or adhesive set applications.
Trim Pieces	1 = varies w = varies varying thickness	PA 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

# 2.1 Components or products manufactured by others

Product	<u>Dimensions</u>	Test Specifications	Product <u>Description</u>	Manufacturer
Rainproof II	30" x 75' roll 36" x 75' roll or 60" x 75' roll	PA 104	Single ply, nail-on underlayment with 2" self-adhering top edge.	Protect-O-Wrap, Inc. (with current NOA)
Ice and Water Shield	36" x 75' roll	PA 103	Self-adhering underlayment	W.R. Grace Co.

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Roofing Product Control Examiner

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<u>Product</u>	<u>Dimensions</u>	Test Specifications	Product <u>Description</u>	<u>Manufacturer</u>
Tile Nails	Min. 10dx 3"	PA 114 Appendix E	Corrosion resistant screw or smooth shank nails	generic
Tile Screws	#8x 2 ½" long 0.335" head dia. 0.131" shank dia. 0.175" screw thread dia.	PA 114 Appendix E	Corrosion resistant, coated, square drive, galvanized, coarse thread wood screws	generic
Roof Tile Mortar ("TileTiteTM")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	Bermuda Roof Company, Inc. with current PCA
Roof Tile Mortar ("Quikrete® Roof Tile Mortar #1140")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	Quikrete Construction Products with Current PCA
Roof Tile Mortar ("BONSAL® Roof Tile Mortar Mix")	N/A	PA 123	Prepared mortar mix designed for mortar set roof tile applications.	W. R. Bonsal Co. with current PCA
Roof Tile Adhesive ("Polypro® AH160")	N/A	See PCA	Two component polyurethane adhesive designed for adhesive set roof tile applications.	Polyfoam Products, Inc.
Roof Tile Adhesive TileBond	Factory premixed canisters	See PCA	Single component polyurethane foam roof tile adhesive	Flexible Products (with current NOA)
Hurricane Clip & Fasteners	Clips Min. ½" width Min. 0.060" thick Clip Fasteners Min. 8d x 1 ½"	PA 114 Appendix E	Corrosion resistant clips with corrosion resistant nails.	Generic

# 3. LIMITATIONS

3.1 Fire classification is not part of this acceptance.

- For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with PA 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4 Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable Building Code.

### 4. INSTALLATION

- 4.1.1 Entegra Valencia Spanish "S" Concrete Roof Tile and its components shall be installed in strict compliance with Miami Dade County Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Aerodynamic Multipliers - λ (ft³)					
Tile	λ (ft³)	λ (ft³)			
Profile	Direct Deck Application	Direct Deck Application			
Valencia Spanish "S" Tile	0.232	0.252			

Table 2: Restoring Moments due to Gravity - Mg (ft-lbf)										
Tile Profile	3"	:12"	4":	12"	5":	12"	6":	12"	1	2" or ater
Valencia	Batte	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Batten	Direct Deck	Batten s	Direct Deck
Spanish "S" Tile	6.70	7.10	6.60	7.00	6.46	6.84	6.30	6.67	4.08	N/A

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d Ring Shank Nails d Smooth or Screw Shank Nail d Smooth or Screw	28.6 5.1	41.2 6.8	19.4 2.8
Shank Nail od Smooth or Screw		6.8	2.8
	0.0		
Shank Nails	6.9	9.2	7.3
1 #8 Screw	20.7	20.7	18.1
2 #8 Screw	43.2	43.2	29.8
d Smooth or Screw	23.1	23.1	19.0
d Smooth or Screw	29.3	29.3	24.0
d Smooth or Screw	27.6	27.6	38.6
d Smooth or Screw	38.1	38.1	41.8
	2 #8 Screw of Smooth or Screw onk Nail (Field Clip) of Smooth or Screw onk Nail (Eave Clip) of Smooth or Screw onk Nails (Field Clip) of Smooth or Screw onk Nails (Field Clip) of Smooth or Screw onk Nails (Eave Clip)	2 #8 Screw d Smooth or Screw ink Nail (Field Clip) d Smooth or Screw nk Nail (Eave Clip) d Smooth or Screw nk Nails (Field Clip) d Smooth or Screw nk Nails (Field Clip) d Smooth or Screw 38.1	2 #8 Screw 43.2 43.2 Id Smooth or Screw 23.1 23.1 Ink Nail (Field Clip) Id Smooth or Screw 29.3 29.3 Ink Nail (Eave Clip) Id Smooth or Screw 27.6 27.6 Ink Nails (Field Clip) Id Smooth or Screw 38.1 38.1 Ink Nails (Eave Clip)

Table 4: Attachment Resistance Expressed as a Moment M <sub>f</sub> (ft-lbf) for Two Patty Adhesive Set Systems						
Tile Profile	Tile Application	Minimum Attachment Resistance				
Valencia Spanish "S" Tile Adhesive 29.33						
2 See manufactures component approval for installation requirements.						
B Flexible Products Company TileBond Average weight per patty 13.9 grams. Polyfoam Product, Inc. Average weight per patty 8 grams.						

for	Single Patty Adhesive Set System	1S
Tile Profile	Tile Application	Minimum Attachment Resistance
Valencia Spanish "S" Tile	Polyfoam PolyPro™	66.5 <sup>4</sup>
· · · · · · · · · · · · · · · · · · ·	Polyfoam PolyPro™	38.75
4 Large paddy placement of 45 gram	s of PolyPro™.	
5 Medium paddy placement of 24 gra	ams of PolyPro™.	7

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Tile Profile	Tile Application	Minimum Attachment Resistance
Valencia Spanish "S" Tile	Mortar Set	24.5

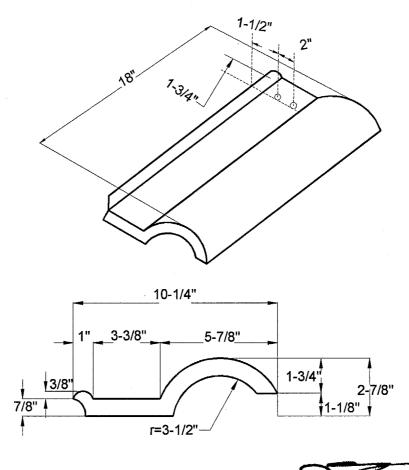
### 5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo, or following statement: "Miami-Dade County Product Control Approved".

## 6. BUILDING PERMIT REQUIREMENTS

- **6.1** Application for building permit shall be accompanied by copies of the following:
  - **6.1.1** This Notice of Acceptance.
  - **6.1.2** Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.

## **PROFILE DRAWING**



ENTEGRA VALENCIA SPANISH "S" CONCRETE ROOF TILE

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- 1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
- 2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
- 3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
- 8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9. This Notice of Acceptance consists of pages 1 through 6and this last page 7.

END OF THIS ACCEPTANCE

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